



The Trusted Integrator for Sustainable Solutions

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REMOVAL SUPPORT TEAM 3
EPA CONTRACT EP-S2-14-01

April 21, 2015

Mrs. Margaret Gregor, On-Scene Coordinator
U.S. Environmental Protection Agency, Region II
Removal Action Branch
2890 Woodbridge Avenue
Edison, New Jersey 08837

EPA CONTRACT No.: EP-S2-14-01

TDD No.: TO-0001-0114

DOCUMENT CONTROL No.: DCN: RST3-01-F-0104

**SUBJECT: FINAL AMENDED SITE-SPECIFIC UFP QUALITY ASSURANCE
PROJECT PLAN – COLUMBIA SMELTING AND REFINING WORKS
SITE, BROOKLYN, KINGS COUNTY, NEW YORK**

Dear Mrs. Gregor,

Enclosed please find the Final Amended Site-Specific Uniform Federal Policy (UFP) Quality Assurance Project Plan (QAPP) for the Removal Assessment to be conducted at the Columbia Smelting and Refining Works Site located in Brooklyn, New York. A total of 226 additional soil samples will be collected for target analyte list (TAL) metals and tin analysis beginning on April 20, 2015. Worksheet Nos. 1, 2, 4, and 9 were updated to include the 226 additional samples. The original Site-Specific UFP QAPP was prepared on February 25, 2015 (RST 3 DC No. RST3-01-F-0078).

If you have any questions or comments, please do not hesitate to contact me at (908) 510-2987.

Sincerely,

WESTON SOLUTIONS, INC

for Michael Beuthe
RST 3 Site Project Manager

Enclosure

cc: TDD File No.: TO-0001-0114

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In association with Scientific and Environmental Associates, Inc.,
Environmental Compliance Consultants, Inc., Avatar Environmental, LLC,
On-Site Environmental, Inc., and Sovereign Consulting, Inc.



**FINAL AMENDED SITE-SPECIFIC UFP
QUALITY ASSURANCE PROJECT PLAN**

COLUMBIA SMELTING AND REFINING WORKS SITE
Brooklyn, Kings County, New York

Prepared By:

Removal Support Team 3
Weston Solutions, Inc.
East Division
Edison, New Jersey 08837

DC No.: RST3-01-F-0104
TDD No.: TO-0001-0114
EPA Contract No.: EP-S2-14-01

April 2015

QAPP Worksheet #1: Title and Approval Page

Title: Final Amended Site-Specific Quality Assurance Project Plan
Site Name/Project Name: Columbia Smelting and Refining Works Site
Site Location: 98 Lorraine Street, Brooklyn, Kings County, New York
Revision Number: 00
Revision Date: Not Applicable

Weston Solutions, Inc.

Lead Organization

Michael Beuthe
Weston Solutions, Inc.
1090 King Georges Post Road, Suite 201
Edison, New Jersey 08837
Email: michael.beuthe@westonsolutions.com

Preparer's Name and Organizational Affiliation

21 April 2015

Preparation Date (Day/Month/Year)

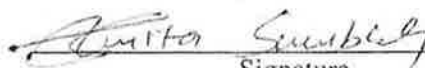
Site Project Manager:


Signature

for Michael Beuthe/Weston Solutions, Inc.

Printed Name/Organization/Date

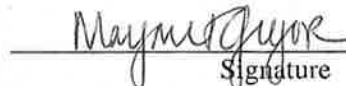
QA Officer/Technical Reviewer:


Signature

Smita Sumbaly/Weston Solutions, Inc.

Printed Name/Organization/Date

EPA, Region II On-Scene Coordinator (OSC):


Signature

Margaret Gregor/EPA, Region II

Printed Name/Organization/Date

EPA, Region II Quality Assurance Officer (QAO):

Signature

Printed Name/Organization/Date

Document Control Number: RST3-01-F-0104

QAPP Worksheet #2: QAPP Identifying Information

Site Name/Project Name: Columbia Smelting and Refining Works Site

Site Location: 95 Lorraine Street, Brooklyn, Kings County, New York

Operable Unit: 00

Title: Final Amended Site-Specific Quality Assurance Project Plan

Revision Number: 00

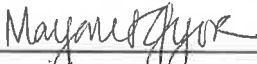
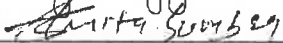

Revision Date: Not Applicable

- 1. Identify guidance used to prepare QAPP:** Uniform Federal Policy for Quality Assurance Project Plans. Refer to EPA/ERT SOPs and DESA analytical methods.
- 2. Identify regulatory program:** EPA, Region II
- 3. Identify approval entity:** EPA, Region II
- 4. Indicate whether the QAPP is a generic or a Site-specific QAPP.**
- 5. List dates of scoping sessions that were held:** January 6, 2015 and April 15, 2015
- 6. List dates and titles of QAPP documents written for previous site work, if applicable:**
February 25, 2015: Final Site-Specific QAPP – Columbia Smelting and Refining Works Site.
- 7. List organizational partners (stakeholders) and connection with lead organization:**
None
- 8. List data users:** EPA, Region II (see Worksheet #4 for individuals)
- 9. If any required QAPP elements and required information are not applicable to the project, then provide an explanation for their exclusion below:** None
- 10. Document Control Number:** RST3-01-F-0104

QAPP Worksheet #4: Project Personnel Sign-Off Sheet

[Copies of this form signed by key project personnel from each organization to indicate that they have read the applicable sections of the QAPP and will perform the tasks as described; add additional sheets as required. Ask each organization to forward signed sheets to the central project file.]

Organization: Weston Solutions, Inc.

Project Personnel	Title	Telephone Number	Signature	Date QAPP Read
Margaret Gregor	EPA, Region II, On-Scene Coordinator	(732) 321-4424		4/21/15
Smita Sumbaly	QAO, RST 3	(732) 254-2254		4/21/15
Timothy Benton	HSO, RST 3	(908) 565-2973		4/21/15
Michael Beuthe	SPM, RST 3	(908) 565-2987		
Ben Nwosu	RST 3 Field Personnel	(908) 565-2980		
Michael Garibaldi	RST 3 Field Personnel	(908) 565-2971		
Robert Croskey	RST 3 Field Personnel	(732) 417-5891		
Joseph Bundens	RST 3 Field Personnel	(908) 565-2985		
Patrick Ahern	RST 3 Field Personnel	(908) 510 - 9551		
Dipanjali Chavan	RST 3 Field Personnel	(908) 565 - 2974		

QAPP Worksheet #9: Project Scoping Session Participants Sheet

Site Name/Project Name: Columbia Smelting and Refining Works Site

Site Location: 98 Lorraine Street, Brooklyn, Kings County, New York

Operable Unit: 00

Date of Session: January 6, 2015 and April 15, 2015

Scoping Session Purpose: To discuss questions, comments, and assumptions regarding technical issues involved with the sampling activities.

Name	Title	Affiliation	Phone #	E-mail Address	*Project Role
Margaret Gregor	EPA OSC	EPA, Region II	(732) 321-4424	gregor.margaret@epa.gov	OSC
Timothy Benton	HSO	Weston Solutions, Inc., RST 3	(732) 585-4425	Timothy.Benton@westonsolutions.com	QA
Michael Beuthe	Site Project Manager	Weston Solutions, Inc., RST 3	(732) 585-4447	Michael.Beuthe@westonsolutions.com	SPM, HSO, Field Lead

Comments/Decisions: As part of the Removal Assessment, Weston Solutions, Inc., Removal Support Team 3 (RST 3) was tasked with the advancement of soil borings at 30 sample locations to a depth of 2 feet (ft) below ground surface (bgs) and collection of up to 95 composite and 63 grab soil samples, including Quality Assurance/Quality Control (QA/QC) samples, from the 0-1, 1-6, 6-12, 12-18 and 18-24 inch depth intervals at the Columbia Smelting and Refining Works Site (the Site). Initial Removal Assessment soil samples were collected in March 2015 (Refer to the original Site-Specific QAPP under DCN number RST3-01-F-0078). Upon the request of the U.S. Environmental Protection Agency (EPA) On-Scene Coordinator (OSC), RST 3 is tasked with the advancement of soil borings at 43 additional sample locations to a depth of 2 ft bgs and collection of up to 226 composite soil samples, including QA/QC samples, from the 0-1, 1-6, 6-12, 12-18 and 18-24 inch depth intervals at the areas of Red Hook Park that are downwind of the former smelter facility. Sampling will begin on April 20, 2015 and last for approximately three weeks. The samples will be collected to determine if historic operations have impacted the soils at the Site. The soil samples collected will be submitted to EPA Division of Environmental Science and Assessment (DESA) laboratory for target analyte list (TAL) metals and tin analysis. Soil samples will be collected in 8-oz. jars (as requested by the lab). The soil samples will be collected for a definitive data QA Objective. Field duplicate and Matrix Spike/ Matrix Spike Duplicate (MS/MSD) samples will be collected at a rate of one per 20 samples per matrix for soil sampling. A rinsate blank sample will be collected on each day of soil sampling activities.

QAPP Worksheet #9: Project Scoping Session Participants Sheet (Concluded)

Action Items: The CLP Request Form was submitted on April 15, 2015

Consensus Decisions: Field activities as part of this phase of the Removal Assessment will begin on April 20, 2015 and will be completed in approximately three weeks.